

# CUENTAS

No. 82



230

A

SE 140  
N 5E 3

1.47

1.47  
98  
20  
1.47

45.7

$$\begin{array}{r} 189 \\ 3778 \\ \hline 580 \\ 290 \end{array}$$

$$\begin{array}{r} 87 \\ 4325 \\ \hline 580 \\ 116 \end{array}$$

$$\begin{array}{r} 75 \\ 5546 \\ \hline 812 \\ 580 \\ 580 \end{array}$$

$$\begin{array}{r} 290 \\ 1810 \\ \hline 1740 \\ 1500 \\ \hline 1450 \end{array}$$

Thurs

Budget

The to have on a bend  
 of the Vampes. Clearing 200  
 x 300 ft. well covered in  
 palm thatch shelter 20 x 66  
 ft. for 40 men. Also four  
 very small shelter, of former  
 rubber workers (Tonex).  
 Twelve to fifteen feet above  
 high water level.

$$\begin{array}{r}
 379 \overline{) 1479} \\
 \underline{2658} \phantom{0} \\
 379 \phantom{0} \\
 \underline{645} \phantom{0} \\
 645 \phantom{0} \\
 \underline{645} \phantom{0} \\
 0
 \end{array}$$

Path from Puerto Nare to Puerto Rubber:

Walking at 580 paces/km.

paces	direction	distance	remarks
1-379	S20E	(644)	6-8 ft wide, 1-2 ft deep
580	S35E		379 small creek N15E, 15 ft wide, former 12 ft. Swamp in wet season. Bridge 1 log, firm
1-8	S35E		580 detect creek, dry
8-149	South		

T

# Puerto Marc to Rubber

<u>Km</u>	<u>ser.</u>	<u>c. neg.</u>	<u>bal.</u>	<u>juan.</u>	<u>etc.</u>
1	18+2	0	0	2	2
2	13+2	0	0	3	1
3	23+1	0	0	4	2
4	13+2	0	0	3	0
5	8+1	2			
6	10+3				
7	11				
8	14+1	0			
9	7+1	1			1
10	5				
11	15	1			
12	32+1	1		2	
13	19	0			
14	13	1	0	5	1
15	4	2	0	2	2
16	27+1	2	2	4	1
17	8	4	3	2	0
18	6	2	2	1	0
19	15	3		2	

II

III

$$\begin{array}{r} 137 \\ 9 \\ \hline 1321 \end{array}$$

$$\begin{array}{r} 93 \\ 17 \\ \hline 651 \end{array}$$

$$\begin{array}{r} 37170 \\ 2590 \\ \hline 36290 \end{array}$$

paces	direction	distance	remarks
147-198	S 10 E		
198-217	S 10 W		
217-283	S 25 E		
283-401	S 05 E		
401-480	S 05 W		
480-580	S 10 E		
1-232	S 05 W	(221)	13 creek 6 ft. wide good bridge Fl. E
		(158)	93 Ext. rebalsn in wet season. Creek 15 ft. wide S 70 E. Good bridge
232-520	South	(629)	370 Natural in wet season

5 cm. 2 1

<del>19</del>	1	1	2	1	
20	9	2	2	3	0
21	4	3	2	4	0
22	5	2	2	1	3
23	6	2	3	5	5
24	15	2	2	2	1
25	7	3	2	2	0
26	7	1	2	2	0
27					
28	7+1	0	1	1	0
29	5	0	0	2	1
30	4	0	1	2	1
31	7+1	0	1+1	2	0
32	6	0	0	1	0
33	6+1	0	0	1	0
34	4	0	0	3	0
35	10+2	0	0	2	0
36	6	0	0	1	0
37	8+1	0	0	2	0
38	11+1	0	0	1	0




42 1.7  
24 4.6  
18 1.4

46 7  
22 3  
24 1

17 3.0  
2 2.4  
15 0.6

12 1.7  
8 4.0  
4 2.3

paces	direction	distance	remarks
		714	420 creek starts 11 to path, cutting across it & from N70W, high abt 15, 15 ft. wide.
		784	461 cross creek flowing N20E. Good bridge. The temporary shelter small. 
1-580	South	476	280 whole creek, 6 ft high, much mud & E. good bridge.
1-107	S 40 W		
17-230	S 25 E	204	120 Creek, N30E 5 ft wide, Good bridge.

IV

	<u>5</u>	cn	<u>L</u>	<u>S</u>	<u>J</u>	<u>11</u>
39	13	0	0	1	0	0
40	16	0	2	6	2	2
41						
42	12	0	3	3	1	
43	12	0	2	2	0	
44	7	0	2	1	0	
45	9+1	0	1	3	0	
46	13	✓	2	2	2	
47	11+1	0	1	3	1	
48	→ 7	0	1	1	0	
49	→ 29	0	3	3	0	
50						
51	9+1	0	2	2	0	
52	7+2	0	3	1	0	
53	18	0	3	2	0	
54	27	0	2	0	0	
55	18	0	1	1	0	
56	29	2	0	1	0	
57	35+1	0	0	0	0	
58	29+1	0	0	3	0	

$$\begin{array}{r} 23^{\circ} 17' 0 \\ \underline{161} \\ 23091 \end{array}$$

$$\begin{array}{r} 22^{\circ} 17' \\ \underline{1561} \\ 22391 \end{array}$$

paces	direction	distance	remarks
230-840	05W	391	230-840 11-15-15

41

(579)

V

VI

VII

59

27

0

0

1

0

35+1

0

0

1

02

34

0

1

0

37

0

0

1

0

18

0

0

1

0

\*

\* 8 km. @ rate  
 of 24 per km.

$$\begin{array}{r} 91.7 \\ \times 1.7 \\ \hline 641 \\ 1547 \\ \hline 1547 \end{array}$$

$$\begin{array}{r} 120.7 \\ \times 1.7 \\ \hline 840 \\ 1207 \\ \hline 205.19 \end{array}$$

$$\begin{array}{r} 173.7 \\ \times 1.7 \\ \hline 12159 \\ 19021 \\ \hline 295.29 \end{array}$$

13-2

11-11-51615

(328)

119 Gub

13-2 20-5  
40-5 50-5

241.

550

11

(55)

VIII

500

(204) 120/3

44. R.

11-120

25 X 17 1/2

$$\begin{array}{r}
 160 \\
 \hline
 1.7 \\
 \hline
 1120 \\
 160 \\
 \hline
 272.0 \\
 \hline
 255 \\
 160 \\
 \hline
 95 \\
 17 \\
 \hline
 665 \\
 95 \\
 \hline
 161.5
 \end{array}$$

$$\begin{array}{r}
 272 \\
 162 \\
 77 \\
 102 \\
 233 \\
 141 \\
 \hline
 987 \\
 \hline
 3 \\
 1.5 \\
 1.5 \\
 1.5 \\
 0.5 \\
 1.0 \\
 2.5
 \end{array}$$

$$\begin{array}{r}
 477.7 \\
 \hline
 348 \\
 498 \\
 \hline
 846.6
 \end{array}$$

$$\begin{array}{r}
 341 \\
 \hline
 1.7 \\
 \hline
 2387 \\
 341 \\
 \hline
 579.7
 \end{array}$$

$$\begin{array}{r}
 374 \\
 \hline
 1.7 \\
 \hline
 2618 \\
 374 \\
 \hline
 635.8
 \end{array}$$

$$\begin{array}{r}
 2.5 \\
 1.5 \\
 0.5 \\
 1.0 \\
 2.5 \\
 1.5 \\
 \hline
 9.5
 \end{array}$$

$$\begin{array}{r}
 533 \\
 \hline
 1.7 \\
 \hline
 3731 \\
 533 \\
 \hline
 906.1
 \end{array}$$

$$\begin{array}{r}
 94 \\
 \hline
 1.7 \\
 \hline
 658 \\
 94 \\
 \hline
 1598
 \end{array}$$

$$\begin{array}{r}
 2.5 \\
 1.5 \\
 1.0 \\
 1.0 \\
 2.5 \\
 1.5 \\
 \hline
 10.0
 \end{array}$$

120-580 South

1-341

"

55

15/11, N 700 ft  
- long piece

1-533

"

(906)

511 ft  
14-11, 100 ft  
H. 255 S 90

1-583

E

1-55

"

1-125

S 10 W

160

1-260

South

(636)

74 acid

1-551

S 30 W

847

498 ft  
14-11, 100 ft  
H. 255 S 90

500-580

S 10 W

IV

X

XI

$$\begin{array}{r} 4181.7 \\ \times 241.7 \\ \hline 2417 \\ 24170 \\ 241700 \\ \hline 100920.69 \end{array}$$

1:150,000

$$\begin{array}{r} = 1000 \text{ m} \\ 100 \text{ cm} \\ \hline 100,000 \end{array}$$

1 cm. on map = 1 Km.

$$\begin{array}{r} 3831.7 \\ \times 632.1 \\ \hline 230321 \\ 2303210 \\ 23032100 \\ \hline 2424000.17 \end{array}$$

$$\begin{array}{r} 561.7 \\ \times 39.52 \\ \hline 22187.344 \end{array}$$

$$\begin{array}{r} 103 \\ 1.7 \\ \hline 721 \\ 103 \\ \hline 1751 \end{array}$$

$$\begin{array}{r} 3491.7 \\ \hline 2380 \\ 340 \\ \hline 5780 \end{array}$$



1 - 383

South

(175) 103

Nearly dry stream bed,  
good bridge.

383 - 464

S 25 W

(632) 383

E good bridge,

Small stream 3 ft. bridge

464 - 580

South 10 W

1 - 56

South 20 E

(95) 56

Point A

Went down  
to camp

XII

56 - 134

S 45 E

384 - 297

South

297 - 418

Small stream

(711)

418 ft.

300  
255  
45

160  
1.7  
1120  
160  
2720  
65  
1.7  
450  
65  
110.5

45  
1.7  
315  
45  
76.5  
60  
1.7  
420  
60  
1020

580  
464  
089  
83  
1.7  
581  
83  
11

145  
11  
583  
14  
1111  
14

497  
360  
137  
1.7  
959  
137  
2329

100  
43  
20.2  
13.2  
6.2

20.2  
13.2  
6.2  
36

272  
111  
77  
102  
233  
141

130  
1168  
1600  
XIII  
4/10

545W

118-549

549-580

530W

550W Tacuana river //

160-240

1555W

240-320

530W

300-360

525W

360-497

South

497-580

545E

over ok.

In station, 560 ft.

XIII

XIV

west

142

192 225 1554

25

525W

307

$$\begin{array}{r} 525 \\ \underline{175} \\ 350 \\ \underline{50} \\ 300 \end{array}$$

$$\begin{array}{r} 134 \\ \underline{17} \\ 117 \\ \underline{134} \\ 2278 \end{array}$$

$$\begin{array}{r} 41 \\ \underline{17} \\ 24 \\ \underline{41} \\ 697 \end{array}$$

$$\begin{array}{r} 230 \\ \underline{17} \\ 1610 \\ \underline{230} \\ 3910 \end{array}$$

5000

$$\begin{array}{r} 147 \\ \underline{17} \\ 1029 \\ \underline{147} \\ 2479 \\ \underline{2479} \\ 580 \\ \underline{147} \\ 530 \\ \underline{467} \\ 113 \end{array}$$

$$\begin{array}{r} 5017 \\ \underline{3500} \\ 3500 \\ \underline{800} \\ 2700 \end{array}$$

$$\begin{array}{r} 467 \\ \underline{17} \\ 3269 \\ \underline{3467} \\ 4939 \end{array}$$

$$\begin{array}{r} 397 \\ \underline{273} \\ 35663 \end{array}$$

$$\begin{array}{r} 486 \\ \underline{17} \\ 3402 \\ \underline{486} \\ 8262 \end{array}$$

$$\begin{array}{r} 180 \\ \underline{17} \\ 1260 \\ \underline{180} \\ 3060 \\ \underline{203} \\ 3451 \end{array}$$

$$\begin{array}{r} 254 \\ \underline{17} \\ 1778 \\ \underline{254} \\ 4318 \end{array}$$

$$\begin{array}{r} 535017 \\ \underline{350} \\ 500 \end{array}$$

$$\begin{array}{r} 100 \\ \underline{100} \end{array}$$

$$\begin{array}{r} 484 \\ \underline{17} \\ 3388 \\ \underline{484} \\ 41828 \end{array}$$

$$\begin{array}{r} 110 \\ \underline{439} \\ 639 \end{array}$$

$$\begin{array}{r} 285 \\ \underline{1945} \\ 128045 \end{array}$$

~~Path No. 1 to 1000~~

~~Very~~

~~Close~~

I-467	S 45° E	(85) 432	50 Feb 34 muddy dry. good dry. 1150 E. 1150 E. 1150 E.	Made 794 192
467-580	S 10 E	(826) 306	486 Dry dry cuts 8 ft.	
I-500	S 85 W	(391) 485	180 Red 2 ft wide East. No. 100 yds. 100 yds. 100 yds.	Land 850
500-541	S 40 W	(823) 893	325 (Cuck) 100 yds. 100 yds. 100 yds.	70
541-580	S 05 W			66
I-550	S 05 W	228	134 Red 4 ft 1120 W. 1120 W. 1120 W.	1000



Meters

(333) 196 Rill 3 ft.

536 310 Rill 55 ft. 45 ft.

655 385 Rill 4 ft. 1 ft.

(1000) full dry. 721 1124 Rill 4 ft. East. 11 ft.

120 Rill 4 ft. 1 ft. 1 ft.

520 E (262) 734 Rill 4 ft. 1 ft. 1 ft.

505 W 323 190 Rill 4 ft. 1 ft. 1 ft. N80 W.

(366) 215 Dry well 5 ft.

(881) 518 Rill 2 ft.

(102) 160 Rill 2 ft.

119 70 0 ft. =

136 150 150 =

250 150 =

306

2.04

77

706

$$\begin{array}{r} 240 \\ 157 \\ \hline 1680 \\ 240 \\ \hline 4080 \end{array}$$

$$\begin{array}{r} 410 \\ 290 \\ \hline 1281 \\ 320 \\ 306 \\ \hline 340 \\ 306.0 \end{array}$$

$$\begin{array}{r} 306 \\ 281 \\ 399 \\ \hline 986 \end{array}$$

$$\begin{array}{r} 120 \\ 117 \\ \hline 840 \\ 1206 \\ \hline 2040 \end{array}$$

$$\begin{array}{r} 2307 \\ 1610 \\ \hline 2391.0 \\ 3958.5 \\ 5345 \end{array}$$

$$\begin{array}{r} 927 \\ 430 \\ 17 \\ \hline 580 \\ 345 \\ 2357 \end{array}$$

$$\begin{array}{r} 535 \\ 360 \\ \hline 1757 \\ 1725 \\ \hline 1775 \end{array}$$

$$\begin{array}{r} 2307 \\ 345 \\ \hline 1610 \\ 2391.0 \\ 3958.5 \\ 5345 \end{array}$$

$$\begin{array}{r} 927 \\ 430 \\ 17 \\ \hline 580 \\ 345 \\ 2357 \end{array}$$

$$\begin{array}{r} 535 \\ 360 \\ \hline 1757 \\ 1725 \\ \hline 1775 \end{array}$$

$$\begin{array}{r} 2307 \\ 345 \\ \hline 1610 \\ 2391.0 \\ 3958.5 \\ 5345 \end{array}$$

$$\begin{array}{r} 927 \\ 430 \\ 17 \\ \hline 580 \\ 345 \\ 2357 \end{array}$$

$$\begin{array}{r} 535 \\ 360 \\ \hline 1757 \\ 1725 \\ \hline 1775 \end{array}$$



40 mins

180345	S 10 E	587	345	large creek	good bridge	15 ft.	281
305-580	505W	(603)	350	current			399
1-230	505W	(323)	170	small			391
230-245	510E	(46)	274				77
245-360	510W	(612)	360	Run E + 71			145
360-535	520W						298
535-580	525W						77
1-240	505W	(218)	123	Run			408
240-290	570W						85
290-410	500W						204
410-430	530W	(79)		Taken in 35 ft. run			34
430-481	177			current	530E		92
481-530	550W						163

X2



Meters

884

✓ 102

697

✓ 289

1800

✓ 1000

S 200 W

S 10 W

(910)

525

3' 1. S 30 E

(966)

525

2 7/4 W

(109)

644

3 Twp

(451)

265

1. S 30 E

(697)

410

Cross Creek

410-580 S 25 W

(153)

90

Cross Creek

N 70 E

(452)

461

Cross Creek

15 W

1. S 30 E

(781)

490

Cross Creek

1. S 30 E

(833)

490

Cross Creek

1. S 30 E

S 25 W

490-580

[illegible]

XXV	1-580	S25W	(24)	14	check 2	
			(326)	120	555E	✓ 1,000
					4760 ft. 20	
			(476)		1430W	
			(850)		1000	
			(153)		90 Castle 540E 4/7 10	
			(867)		510 2 Temp. 10	✓ 1,000
XXVI	1-580	S25W			1000	
					180 Rel. 100 ft. 10	
			(306)		470	700
			(714)		500 ft. 10	65
XXVII	1-580	S25W	(799)	470	check 10	✓ 221
			(119)		700 ft. 10	119

Handwritten mathematical calculations, including long division and multiplication problems, such as  $452 \overline{) 3164}$ ,  $123 \overline{) 12896}$ , and  $243 \overline{) 17401}$ .

Notes

70-457	S10W	(184) 128	Brick	652
453-580	S30W	(770) 453	Brick	✓ 216
1-100	S30W	(918) 340	Brick	170 544
100-420	S15W	(354) 210	Brick	✓ 272
420-500	S25W	(485) 285	Brick	680 570 306 ✓
1-400	S25W			
400-580	S10W			
1-240	S15W	(150) 89	Brick	413
		(413) 243	Brick	454
243-570	S15W			119 ✓
310-580	S30			468 218 ✓
1-452	S30W	(729) 429	Brick	
452-580	S15W			

$$\begin{array}{r} 907 \\ 17 \\ \hline 630 \end{array}$$

$$\begin{array}{r} 390 \\ 21 \\ \hline 15040 \end{array}$$

$$\begin{array}{r} 442 \\ 31 \\ \hline 136 \end{array}$$

$$\begin{array}{r} 3717 \\ 2590 \\ \hline 21290 \end{array}$$

$$\begin{array}{r} 580 \\ 370 \\ \hline 21170 \end{array}$$

$$\begin{array}{r} 1470 \\ 210 \\ \hline 3570 \end{array}$$

$$\begin{array}{r} 48070 \\ 33000 \\ \hline 81157 \end{array}$$

$$\begin{array}{r} 1557 \\ 85 \\ \hline 10535 \end{array}$$

$$\begin{array}{r} 5115 \\ 695 \\ \hline 16105 \end{array}$$

$$\begin{array}{r} 330 \\ 10 \\ \hline 340 \end{array}$$

$$\begin{array}{r} 3717 \\ 2579 \\ \hline 629 \end{array}$$

$$\begin{array}{r} 4655 \\ 3017 \\ \hline 2305 \end{array}$$

$$\begin{array}{r} 7575 \\ 1175 \\ \hline 5712 \end{array}$$

$$\begin{array}{r} 32157 \\ 32157 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 5330 \\ 13717 \\ \hline 19047 \end{array}$$

$$\begin{array}{r} 5337 \\ 1333 \\ \hline 3500 \end{array}$$

$$\begin{array}{r} 3707 \\ 2590 \\ \hline 2290 \end{array}$$

21



1-90	S15W			153
90-310	S20W			374
310-442	S25W		480 Bank 2-1/2 mi. S.E.	224
442-485	S65E	(816)		73
K33 485-580	S25W			✓ 162
K34 1-580	S25W	(629) 37	0.5 mi. S.E.	570L
1-155	S15W	(128) 75	11	
155-117	S15W	(157) 32	1 mi. S.E.	1000
460-533	South	(906)	533 Bank Spl. Ridge	264
K35 533-580	N75W			519
1-370	S15W	(629)		124
K36 370-580	S25W		370 Rice Spl. S30E	✓ 80
				629
				357 ✓

[illegible]

1-75	S20W	(68)	40 Rec 314 S20E	128
75-580	S30W	(121)	71 Rec 374 E	
		740	437 Top of Brook 414 S50E	
		(90)	530 Creek 157 ft. g. w. 16 ft. S15E	
		(1,000)	520 Brook 71, 11/11	859 ✓
		530W		714
420-500	S10W	825	485 Creek 157 ft. g. w. 16 ft. S15E	136
500-550	S20W			136 ✓
1-580	S20W	(260)	153 Creek 141 ft. g. w. 13 ft. S30E	1,000
		(97)	571 Rec 244 S30E	441
1-242	S20W	(60)	351 Rec 674 N56E 13 ft.	231
242-374	S30W			343 ✓
374-580	S20W	(697)	415 Rec 300	

K17

K28  
K29

K41

51.7

$$\begin{array}{r} 25.7 \\ 14.0 \\ 12.0 \\ 12.0 \\ \hline 63.7 \end{array}$$

22.17

$$\begin{array}{r} 33.7 \\ 23.0 \\ 23.0 \\ \hline 80.0 \end{array}$$

50.0

$$\begin{array}{r} 13.7 \\ 11.7 \\ 94.5 \\ 132.9 \\ \hline 222.8 \end{array}$$

51.7

$$\begin{array}{r} 51.7 \\ 31.7 \\ 21.7 \\ 21.7 \\ \hline 126.8 \end{array}$$

132.9

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

51.7

$$\begin{array}{r} 51.7 \\ 31.7 \\ 21.7 \\ 21.7 \\ \hline 126.8 \end{array}$$

132.9

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

51.7

$$\begin{array}{r} 51.7 \\ 31.7 \\ 21.7 \\ 21.7 \\ \hline 126.8 \end{array}$$

132.9

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

51.7

$$\begin{array}{r} 51.7 \\ 31.7 \\ 21.7 \\ 21.7 \\ \hline 126.8 \end{array}$$

132.9

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

51.7

$$\begin{array}{r} 51.7 \\ 31.7 \\ 21.7 \\ 21.7 \\ \hline 126.8 \end{array}$$

132.9

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

$$\begin{array}{r} 132.9 \\ 11.7 \\ 11.7 \\ 11.7 \\ \hline 167.0 \end{array}$$

161

1-511	520W	58	34	809
51-541	525E			51
541-580	520W			66
1-22	520W			37
2-135	520W			192
135-190	510W			94
190-330	520W	442	Brick 674. 520E	663
1-330	520W	663	34, 111	
330-560	530W	230	135 Brick 5th. Bridge 540E	
560-580	510W	425	250 Brick 6th. 540E	561
580-580	520W	850	500 Brick 3rd. 580E	289
1-160	520W	323	190 Brick 2nd. 510E	102
160-280	520W	523	310 Brick 1st. 510E	34
280-480	530W			37
480-520	520W	842	495 Brick 1st. 611	340
				170

$$\begin{array}{r} 558 \\ 1.7 \\ \hline 3906 \\ 555 \\ \hline 9486 \end{array}$$

$$\begin{array}{r} 307.6 \\ 1.7 \\ \hline 520 \\ 364.6 \\ \hline \end{array}$$

$$\begin{array}{r} 520 \\ 1.7 \\ \hline 364.6 \\ 364.6 \\ \hline \end{array}$$

$$\begin{array}{r} 401.4 \\ 1.7 \\ \hline 288.8 \\ 468.8 \\ \hline \end{array}$$

$$\begin{array}{r} 487.6 \\ 1.7 \\ \hline 338.6 \\ 487.6 \\ \hline \end{array}$$

$$\begin{array}{r} 511.6 \\ 1.7 \\ \hline 288.8 \\ 354.4 \\ \hline \end{array}$$

$$\begin{array}{r} 106 \\ 1.7 \\ \hline 74.2 \\ 106 \\ \hline 180. \end{array}$$

$$\begin{array}{r} 181.7 \\ 1.7 \\ \hline 128.6 \\ 154 \\ \hline 31.4 \end{array}$$

$$\begin{array}{r} 395.7 \\ 1.7 \\ \hline 246.5 \\ 395.7 \\ \hline \end{array}$$

$$\begin{array}{r} 121.7 \\ 1.7 \\ \hline 88.0 \\ 121.7 \\ \hline \end{array}$$

$$\begin{array}{r} 147.0 \\ 1.7 \\ \hline 110.0 \\ 147.0 \\ \hline \end{array}$$

$$\begin{array}{r} 332.4 \\ 1.7 \\ \hline 232.4 \\ 332.4 \\ \hline \end{array}$$

$$\begin{array}{r} 256 \\ 1.7 \\ \hline 194.7 \\ 256 \\ \hline \end{array}$$

$$\begin{array}{r} 142.4 \\ 1.7 \\ \hline 99.1 \\ 142.4 \\ \hline \end{array}$$

$$\begin{array}{r} 518.5 \\ 1.7 \\ \hline 369.5 \\ 518.5 \\ \hline \end{array}$$

$$\begin{array}{r} 138.0 \\ 1.7 \\ \hline 99.1 \\ 138.0 \\ \hline \end{array}$$

$$\begin{array}{r} 371.6 \\ 1.7 \\ \hline 254.6 \\ 371.6 \\ \hline \end{array}$$

$$\begin{array}{r} 104.4 \\ 1.7 \\ \hline 104.4 \\ 104.4 \\ \hline \end{array}$$

74

8/3

125

145	1-580	520W	779	1000 ft. E.	1000
1-120	520W	179	1000 ft. E.	1000	
120-378	535W	258	1000 ft. E.	1000	
		564	1000 ft. E.	1000	
		643	1000 ft. E.	1000	
146	378-580	525W	136	1000 ft. E.	1000
1-142	525W	241	1000 ft. E.	1000	
142-185	505W	689	1000 ft. E.	1000	
147	185-580	520W	306	1000 ft. E.	1000
1-520	520W	949	1000 ft. E.	1000	
520-558	60W	820	1000 ft. E.	1000	
148	558-580	815W	820	1000 ft. E.	1000
1-106	815W	820	1000 ft. E.	1000	
100-250	525W	820	1000 ft. E.	1000	

180  
240

587  
657  
577

73  
672

437  
343  
241

1000

204

$$\begin{array}{r} 3970 \\ 1230 \\ \hline 2740 \\ 105 \\ \hline 2845 \end{array}$$

$$\begin{array}{r} 580 \\ 310 \\ \hline 270 \\ 17 \\ \hline 287 \end{array}$$

$$\begin{array}{r} 3107 \\ 2170 \\ \hline 310 \\ 5270 \\ \hline 310 \end{array}$$

$$\begin{array}{r} 17 \\ 17 \\ \hline 34 \\ 391 \\ \hline 5707 \end{array}$$

$$\begin{array}{r} 5717 \\ 391 \\ \hline 5707 \end{array}$$

$$\begin{array}{r} 5745 \\ 175 \\ \hline 5920 \end{array}$$

$$\begin{array}{r} 1807 \\ 1304 \\ \hline 1503 \end{array}$$

$$\begin{array}{r} 2262 \\ 1582 \\ \hline 3844 \end{array}$$

$$\begin{array}{r} 500 \\ 240 \\ \hline 740 \end{array}$$

$$\begin{array}{r} 1240 \\ 2360 \\ \hline 3600 \end{array}$$

$$\begin{array}{r} 4417 \\ 3041 \\ \hline 7458 \end{array}$$

$$\begin{array}{r} 5705 \\ 415 \\ \hline 5705 \end{array}$$

$$\begin{array}{r} 5705 \\ 415 \\ \hline 5705 \end{array}$$

$$\begin{array}{r} 5705 \\ 415 \\ \hline 5705 \end{array}$$



251-285	S 05W	(527)	310 Cont. 12/11 N57E Bds	60
285-310	S 45W	(527)		43
310-350	S 20W	(527)		✓ 459
350-380	S 20W	(527)		
380-410	S 20W	(527)		
410-440	S 20W	(527)		
440-470	S 20W	(527)		
470-500	S 20W	(527)		
500-530	S 20W	(527)		
530-560	S 20W	(527)		
560-590	S 20W	(527)		
590-620	S 20W	(527)		
620-650	S 20W	(527)		
650-680	S 20W	(527)		
680-710	S 20W	(527)		
710-740	S 20W	(527)		
740-770	S 20W	(527)		
770-800	S 20W	(527)		
800-830	S 20W	(527)		
830-860	S 20W	(527)		
860-890	S 20W	(527)		
890-920	S 20W	(527)		
920-950	S 20W	(527)		
950-980	S 20W	(527)		
980-1010	S 20W	(527)		
1010-1040	S 20W	(527)		
1040-1070	S 20W	(527)		
1070-1100	S 20W	(527)		
1100-1130	S 20W	(527)		
1130-1160	S 20W	(527)		
1160-1190	S 20W	(527)		
1190-1220	S 20W	(527)		
1220-1250	S 20W	(527)		
1250-1280	S 20W	(527)		
1280-1310	S 20W	(527)		
1310-1340	S 20W	(527)		
1340-1370	S 20W	(527)		
1370-1400	S 20W	(527)		
1400-1430	S 20W	(527)		
1430-1460	S 20W	(527)		
1460-1490	S 20W	(527)		
1490-1520	S 20W	(527)		
1520-1550	S 20W	(527)		
1550-1580	S 20W	(527)		
1580-1610	S 20W	(527)		
1610-1640	S 20W	(527)		
1640-1670	S 20W	(527)		
1670-1700	S 20W	(527)		
1700-1730	S 20W	(527)		
1730-1760	S 20W	(527)		
1760-1790	S 20W	(527)		
1790-1820	S 20W	(527)		
1820-1850	S 20W	(527)		
1850-1880	S 20W	(527)		
1880-1910	S 20W	(527)		
1910-1940	S 20W	(527)		
1940-1970	S 20W	(527)		
1970-2000	S 20W	(527)		
2000-2030	S 20W	(527)		
2030-2060	S 20W	(527)		
2060-2090	S 20W	(527)		
2090-2120	S 20W	(527)		
2120-2150	S 20W	(527)		
2150-2180	S 20W	(527)		
2180-2210	S 20W	(527)		
2210-2240	S 20W	(527)		
2240-2270	S 20W	(527)		
2270-2300	S 20W	(527)		
2300-2330	S 20W	(527)		
2330-2360	S 20W	(527)		
2360-2390	S 20W	(527)		
2390-2420	S 20W	(527)		
2420-2450	S 20W	(527)		
2450-2480	S 20W	(527)		
2480-2510	S 20W	(527)		
2510-2540	S 20W	(527)		
2540-2570	S 20W	(527)		
2570-2600	S 20W	(527)		
2600-2630	S 20W	(527)		
2630-2660	S 20W	(527)		
2660-2690	S 20W	(527)		
2690-2720	S 20W	(527)		
2720-2750	S 20W	(527)		
2750-2780	S 20W	(527)		
2780-2810	S 20W	(527)		
2810-2840	S 20W	(527)		
2840-2870	S 20W	(527)		
2870-2900	S 20W	(527)		
2900-2930	S 20W	(527)		
2930-2960	S 20W	(527)		
2960-2990	S 20W	(527)		
2990-3020	S 20W	(527)		
3020-3050	S 20W	(527)		
3050-3080	S 20W	(527)		
3080-3110	S 20W	(527)		
3110-3140	S 20W	(527)		
3140-3170	S 20W	(527)		
3170-3200	S 20W	(527)		
3200-3230	S 20W	(527)		
3230-3260	S 20W	(527)		
3260-3290	S 20W	(527)		
3290-3320	S 20W	(527)		
3320-3350	S 20W	(527)		
3350-3380	S 20W	(527)		
3380-3410	S 20W	(527)		
3410-3440	S 20W	(527)		
3440-3470	S 20W	(527)		
3470-3500	S 20W	(527)		
3500-3530	S 20W	(527)		
3530-3560	S 20W	(527)		
3560-3590	S 20W	(527)		
3590-3620	S 20W	(527)		
3620-3650	S 20W	(527)		
3650-3680	S 20W	(527)		
3680-3710	S 20W	(527)		
3710-3740	S 20W	(527)		
3740-3770	S 20W	(527)		
3770-3800	S 20W	(527)		
3800-3830	S 20W	(527)		
3830-3860	S 20W	(527)		
3860-3890	S 20W	(527)		
3890-3920	S 20W	(527)		
3920-3950	S 20W	(527)		
3950-3980	S 20W	(527)		
3980-4010	S 20W	(527)		
4010-4040	S 20W	(527)		
4040-4070	S 20W	(527)		
4070-4100	S 20W	(527)		
4100-4130	S 20W	(527)		
4130-4160	S 20W	(527)		
4160-4190	S 20W	(527)		
4190-4220	S 20W	(527)		
4220-4250	S 20W	(527)		
4250-4280	S 20W	(527)		
4280-4310	S 20W	(527)		
4310-4340	S 20W	(527)		
4340-4370	S 20W	(527)		
4370-4400	S 20W	(527)		
4400-4430	S 20W	(527)		
4430-4460	S 20W	(527)		
4460-4490	S 20W	(527)		
4490-4520	S 20W	(527)		
4520-4550	S 20W	(527)		
4550-4580	S 20W	(527)		
4580-4610	S 20W	(527)		
4610-4640	S 20W	(527)		
4640-4670	S 20W	(527)		
4670-4700	S 20W	(527)		
4700-4730	S 20W	(527)		
4730-4760	S 20W	(527)		
4760-4790	S 20W	(527)		
4790-4820	S 20W	(527)		
4820-4850	S 20W	(527)		
4850-4880	S 20W	(527)		
4880-4910	S 20W	(527)		
4910-4940	S 20W	(527)		
4940-4970	S 20W	(527)		
4970-5000	S 20W	(527)		
5000-5030	S 20W	(527)		
5030-5060	S 20W	(527)		
5060-5090	S 20W	(527)		
5090-5120	S 20W	(527)		
5120-5150	S 20W	(527)		
5150-5180	S 20W	(527)		
5180-5210	S 20W	(527)		
5210-5240	S 20W	(527)		
5240-5270	S 20W	(527)		
5270-5300	S 20W	(527)		
5300-5330	S 20W	(527)		
5330-5360	S 20W	(527)		
5360-5390	S 20W	(527)		
5390-5420	S 20W	(527)		
5420-5450	S 20W	(527)		
5450-5480	S 20W	(527)		
5480-5510	S 20W	(527)		
5510-5540	S 20W	(527)		
5540-5570	S 20W	(527)		
5570-5600	S 20W	(527)		
5600-5630	S 20W	(527)		
5630-5660	S 20W	(527)		
5660-5690	S 20W	(527)		
5690-5720	S 20W	(527)		
5720-5750	S 20W	(527)		
5750-5780	S 20W	(527)		
5780-5810	S 20W	(527)		
5810-5840	S 20W	(527)		
5840-5870	S 20W	(527)		
5870-5900	S 20W	(527)		
5900-5930	S 20W	(527)		
5930-5960	S 20W	(527)		
5960-5990	S 20W	(527)		
5990-6020	S 20W	(527)		
6020-6050	S 20W	(527)		
6050-6080	S 20W	(527)		
6080-6110	S 20W	(527)		
6110-6140	S 20W	(527)		
6140-6170	S 20W	(527)		
6170-6200	S 20W	(527)		
6200-6230	S 20W	(527)		
6230-6260	S 20W	(527)		
6260-6290	S 20W	(527)		
6290-6320	S 20W	(527)		
6320-6350	S 20W	(527)		
6350-6380	S 20W	(527)		
6380-6410	S 20W	(527)		
6410-6440	S 20W	(527)		
6440-6470	S 20W	(527)		
6470-6500	S 20W	(527)		
6500-6530	S 20W	(527)		
6530-6560	S 20W	(527)		
6560-6590	S 20W	(527)		
6590-6620	S 20W	(527)		
6620-6650	S 20W	(527)		
6650-6680	S 20W	(527)		
6680-6710	S 20W	(527)		
6710-6740	S 20W	(527)		
6740-6770	S 20W	(527)		
6770-6800	S 20W	(527)		
6800-6830	S 20W	(527)		
6830-6860	S 20W	(527)		
6860-6890	S 20W	(527)		
6890-6920	S 20W	(527)		
6920-6950	S 20W	(527)		
6950-6980	S 20W	(527)		
6980-7010	S 20W	(527)		
7010-7040	S 20W	(527)		
7040-7070	S 20W	(527)		
7070-7100	S 20W	(527)		
7100-7130	S 20W	(527)		
7130-7160	S 20W	(527)		
7160-7190	S 20W	(527)		
7190-7220	S 20W	(527)		
7220-7250	S 20W	(527)		
7250-7280	S 20W	(527)		
7280-7310	S 20W	(527)		
7310-7340	S 20W	(527)		
7340-7370	S 20W	(527)		
7370-7400	S 20W	(527)		
7400-7430	S 20W	(527)		
7430-7460	S 20W	(527)		
7460-7490	S 20W	(527)		
7490-7520	S 20W	(527)		
7520-7550	S 20W	(527)		
7550-7580	S 20W	(527)		
7580-7610	S 20W	(527)		
7610-7640	S 20W	(527)		
7640-7670	S 20W	(527)		
7670-7700	S 20W	(527)		
7700-7730	S 20W	(527)		
7730-7760	S 20W	(527)		
7760-7790	S 20W	(527)		
7790-7820	S 20W	(527)		
7820-7850	S 20W	(527)		
7850-7880	S 20W	(527)		
7880-7910	S 20W	(527)		
7910-7940	S 20W	(527)		
7940-7970	S 20W	(527)		
7970-8000	S 20W	(527)		
8000-8030	S 20W	(527)		
8030-8060	S 20W	(527)		
8060-8090	S 20W	(527)		
8090-8120	S 20W	(527)		
8120-8150	S 20W	(527)		
8150-8180	S 20W	(527)		
8180-8210	S 20W	(527)		
8210-8240	S 20W	(527)		
8240-8270	S 20W	(527)		
8270-8300	S 20W	(527)		
8300-8330	S 20W	(527)		
8330-8360	S 20W	(527)		
8360-8390	S 20W	(527)		
8390-8420	S 20W	(527)		
8420-8450	S 20W	(527)		
8450-8480	S 20W	(527)		
8480-8510	S 20W	(527)		

50/50

~~17/11/5~~

File

33021107

$$\begin{array}{r} 955 \\ 1281 \\ \hline 2236 \end{array}$$

$$\begin{array}{r} 150 \\ 24 \overline{) 2920} \\ \underline{48} \phantom{0} \\ 120 \phantom{0} \\ \underline{48} \phantom{0} \\ 72 \phantom{0} \\ \underline{72} \phantom{0} \\ 0 \end{array}$$

580

~~10-10-10~~

~~2590~~

0.11

~~85  
340  
110~~

~~1.7/3~~  
~~2.7/3~~  
~~6.3~~

$$\begin{array}{r} 1610 \\ 230 \\ \hline 391 \end{array}$$

$$\begin{array}{r} 1610 \\ 230 \\ \hline 3910 \end{array}$$

290

9119

1

14

561-460

Fig. 2.

~~0.17~~

1043

18

~~5.14 13~~  
~~5.14 13~~  
~~5.14 13~~

$$\begin{array}{r} 1520 \\ 3 \overline{) 4860} \\ \underline{4560} \\ 300 \\ \underline{270} \\ 30 \end{array}$$

541  
543

$$\begin{array}{r} 12 \\ 54 \overline{) 648} \\ \underline{54} \phantom{0} \\ 108 \phantom{0} \\ \underline{108} \phantom{0} \\ 0 \phantom{0} \end{array}$$

$$\begin{array}{r} 75 \\ 17 \\ \hline 92 \end{array}$$

580

~~10-10-10~~

$$\begin{array}{r} 298 \\ 1.7 \\ \hline 299.7 \end{array}$$

$$\frac{36}{1}$$

$$\begin{array}{r} 81 \\ 1377 \end{array}$$

87

1005	5
------	---

$$\begin{array}{r} 460 \\ 230 \\ \hline 230 \\ \hline 191 \end{array}$$

$$\begin{array}{r} 100 \\ 30 \\ \hline 130 \\ 30 \\ \hline 160 \end{array}$$

100

$$\frac{320}{48} = 6.666666666666667$$

23/3

$$\begin{array}{r} 230 \\ 39 \overline{) 8910} \end{array}$$



1 2 3 4 5

1 2 3 4 5

1 2 3 4 5

$$\begin{array}{r} 461.7 \\ \times 220 \\ \hline 9234 \\ 92340 \\ \hline 101774 \end{array}$$

$$\begin{array}{r} 585 \\ \times 195 \\ \hline 5850 \\ 10710 \\ 11700 \\ \hline 115075 \end{array}$$

$$\begin{array}{r} 149.70 \\ \times 900 \\ \hline 134730 \end{array}$$

$$\begin{array}{r} 520.70 \\ \times 14.0 \\ \hline 7290 \\ 72900 \\ \hline 72900 \end{array}$$

$$\begin{array}{r} 195.7 \\ \times 195 \\ \hline 38155 \end{array}$$

$$\begin{array}{r} 407.0 \\ \times 65.0 \\ \hline 26455 \end{array}$$

520W

530W

540

550W

560

570

580

590

600

610

620

630

1-500

540-550

1-100

195-580

1-530

530-580

1-550

550-600

1-600

600-610

610-620

620-630

918

682

332

655

238

782

35

1.7

1-420 550

420-550 565 W

500-585 117 W

~~1369~~  
1715

M

7.7

250  
1.7

1750  
250

425.0

861

62 460-580 S20W

1-250 S20W

250-380

3/4 Km, 330-435 S50W

179  
425  
136

$\frac{748.37}{100} = 7.4837$

$\frac{435}{116} = 3.75$

$50 \overline{) 37.0}$   
 $\underline{20.0}$   
17.0

$\frac{75}{81.2} = .91$

$\frac{80}{1.7} = 47.06$   
 $\frac{80}{.8} = 100$   
 $\frac{136.0}{80}$

330  
250  
80

460 S20W

5

330 Group of 4 Temp shelters  
20 x 12 pairs, Finish camp

435 Main Camp

$\frac{105}{1.7} = 61.76$   
 $\frac{735}{105} = 7$   
 $\frac{1785}{105} = 17$

$\frac{1785}{105} = 17$   
 $\frac{1785}{105} = 17$   
 $\frac{1785}{105} = 17$

80  
136.0

330  
250  
80

36  
30  
29  
36  
34  
37  
24

226

122

131

085

056

129

137

8<sup>28</sup>36

20  
15  
24  
15  
09  
13  
11  
15

122

08  
05  
13  
33  
19  
13  
04  
28  
08

137

08  
05  
04  
10  
06  
07  
04  
12

56

06  
13  
09  
09  
07  
05  
06  
15  
07  
08

85

14.2

62 | 886  
62

260

248

120  
124



06	07
09	09
12	10
13	10
16	09
18	18
12	27
08	18
10	29

13	1357
12	

---

129

	61
62	38.0
	372
	80

	2.2
62	135.0
	124
	110
	62



It is the topography of the left  
bank with the numerous  
creeks and streams that  
flow into the river from the  
left bank that causes the  
floods. The left bank has considerable  
area of low land subject to  
inundation and a large area  
emptying into the river at the point  
where the river turns  
a subject to flooding. Similar  
conditions obtain along  
the left bank below the point  
which has 2 creeks emptying  
into the Casaporia close to the  
point. On the right (Caqueta) bank  
at Puerto, the terrain is above  
flood level only along the bank, all  
the hinterland being subject to  
inundations at high water.

The largest area of land not subject  
to flooding at high water is a rectangular  
piece at the lower end of the straight

$$\begin{array}{r} S25E \\ \hline 0.5 \end{array} \quad \begin{array}{r} N75W \\ \hline 1.0 \end{array} \quad \begin{array}{r} S65E \\ \hline 0.5 \end{array}$$

stretch of Pto. . It ~~is~~ lies along the axis of this stretch. The edge of the river is well above high water level for more than 250 m at  $S80E$ . In depth,  $N45E$  this piece ~~has~~ measures 550 m. before a large floodable area is met.

---

The last km. of path before arriving at Pto. V. has considerable low land which is underwater ~~at~~ in the rainy season.

---

# Direction of path Graduated. to Apapous -

<u>S mth</u>	<u>S10W</u>	<u>S15W</u>	<u>S20W</u>	<u>S25W</u>	<u>S30W</u>
5.0	6.5	5.5	3.5	3.0	2.0
0.5	3.0	4.0	3.5	7.0	2.0
0.5	4.5	2.0	1.5	2.0	1.0
	1.5	1.5	1.5	1.5	7.5
	1.0	2.5	10.0	10.0	8.5
	1.0	6.5	4.0	0.5	7.0
	3.5	0.5	3.5	3.0	2.5
	1.5	2.0	9.0	3.5	3.0
	1.5		2.0	2.5	2.0
			6.5	2.5	3.5
			5.5	4.0	2.0
			1.5		0.5
			10.0		10.0
			2.0	39.5	2.5
			6.5		0.5
			10.0		1.0
			9.0		3.0
			4.5		
			3.0		
			5.5		
			10.0		
			10.0		
			10.0		
			6.0		
			5.0		
			9.0		
			6.5		
<u>S35W</u>	<u>S05W</u>	<u>S60W</u>	<u>S75W</u>	<u>S40W</u>	
4.5	0.5	0.5	159.0	2.0	
1.0	0.5				

S45W  
0.5

To creek

100	100	100	100
200	200	200	200
300	300	300	300
400	400	400	400
500	500	500	500
600	600	600	600
700	700	700	700
800	800	800	800
900	900	900	900
1000	1000	1000	1000
1100	1100	1100	1100
1200	1200	1200	1200
1300	1300	1300	1300
1400	1400	1400	1400
1500	1500	1500	1500
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2800	2800	2800	2800
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3000	3000	3000	3000
3100	3100	3100	3100
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4100	4100	4100	4100
4200	4200	4200	4200
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10000	10000	10000	10000

1/2

0.1 ft  
0.1 ft

strip  
N 45 E

The path between Tacueme I & Guaduales is unbelievably poor. The terrain is gently rolling and there are many dips due to deeply cut fields. The ground is clay and is continuously muddy and swampy in places due to the fact that it never dries out.

In the second part of the path, the path is much narrower and much more poorly made. It would average 6 ft. in width.

Offs - Tacueme I - 13.2

Tacueme I - Guaduales 27.1

Guaduales - (Abesac) 36.8

Alys - Cam Grande 45.7

Guaduales is a clearing about 300 x 300 ft. with three very temp. thatch shelters 13 x 10 ft. Dried fuel lumber would have to be burned off before pasturage could be sown.

It is on a very small creek about 15 ft. in width & shallow. A good pt. for its equidistance.



$$\begin{array}{r}
 26 \\
 18 \\
 \hline
 18.8 \\
 18.8 \\
 \hline
 5.0 \\
 11.6 \\
 \hline
 5.8 \\
 29
 \end{array}$$

$$\begin{array}{r}
 29 \overline{) 9.0} \\
 87 \\
 \hline
 30
 \end{array}$$

$$\begin{array}{r}
 23 \\
 46.8 \\
 \hline
 29
 \end{array}$$

$$\begin{array}{r}
 115 \\
 2310 \\
 460 \\
 \hline
 580 \\
 116 \\
 \hline
 58
 \end{array}$$

$$\begin{array}{r}
 36.8 \\
 27.1 \\
 \hline
 9.7
 \end{array}$$

$$\begin{array}{r}
 45.7 \\
 36.8 \\
 \hline
 8.9
 \end{array}$$

$$\begin{array}{r}
 48.3 \\
 45.7 \\
 \hline
 2.6
 \end{array}$$

$$\begin{array}{r}
 57.8 \\
 48.3 \\
 \hline
 9.5
 \end{array}$$

$$\begin{array}{r}
 29 \overline{) 23.0} \\
 232 \\
 \hline
 3.9
 \end{array}$$

$$\begin{array}{r}
 61.7 \\
 48.8 \\
 \hline
 3.9
 \end{array}$$

Southbound

Northbound

Loc	distance from last camp	Km from App.	from last way post.
	13.2	61.7	
	13.9	57.8	
	9.7		
	8.9		

(Barriol 48.3) 2.6  
 (Esperanza 57.8) 9.5  
 Pt Victoria 61.7 3.9 3.9

~~277~~<sup>30</sup> There are two streams  
over which the trail crosses  
which are known as Tacumena  
These are designated as Tacumena  
I + Tacumena II. They are 6.2 Km.  
apart (as crossed by the path) and unite  
slightly east to form the large main  
Rio Tacumena which empties into  
the Opepuri.

Between Tacumena I and  
Guaduales the path crosses  
smaller creeks, streams + rills,  
mostly flowing eastwards, which  
also form the Tacumena.  
A number, if not most, of these  
must dry out in the dry season, thus  
accounting for the tremendous  
fluctuation in size of the Tacumena.  
In the height of the wet season, it is  
said to be a river like the Itella, in  
the dry season it is not navigable.

$$\begin{array}{r} 61.7 \\ 3.9 \\ \hline 57.8 \end{array}$$

$$\begin{array}{r} 61.7 \\ 13.2 \\ \hline 48.5 \end{array} \quad \begin{array}{r} 61.7 \\ 27.1 \\ \hline 34.6 \end{array} \quad \begin{array}{r} 61.7 \\ 36.8 \\ \hline 24.9 \end{array} \quad \begin{array}{r} 61.7 \\ 45.7 \\ \hline 16.0 \end{array}$$

$$\begin{array}{r} 27.1 \\ 13.2 \\ \hline 13.9 \end{array} \quad \begin{array}{r} 36.8 \\ 13.2 \\ \hline 23.6 \end{array} \quad \begin{array}{r} 45.7 \\ 13.2 \\ \hline 32.5 \end{array} \quad \begin{array}{r} 48.3 \\ 13.2 \\ \hline 35.1 \end{array}$$

$$\begin{array}{r} 61.7 \\ 48.3 \\ \hline 13.4 \end{array} \quad \begin{array}{r} 61.7 \\ 57.8 \\ \hline 3.9 \end{array} \quad \begin{array}{r} 57.8 \\ 13.2 \\ \hline 44.6 \end{array} \quad \begin{array}{r} 61.7 \\ 13.2 \\ \hline 48.5 \end{array}$$

$$\begin{array}{r} 57.8 \\ 13.2 \\ \hline 44.6 \end{array} \quad \begin{array}{r} 57.8 \\ 27.1 \\ \hline 30.7 \end{array} \quad \begin{array}{r} 57.8 \\ 36.8 \\ \hline 21.0 \end{array} \quad \begin{array}{r} 57.8 \\ 45.7 \\ \hline 12.1 \end{array} \quad \begin{array}{r} 57.8 \\ 48.3 \\ \hline 9.5 \end{array}$$

$$\begin{array}{r} 57.8 \\ \hline \end{array} \quad \begin{array}{r} 48.3 \\ 13.2 \\ \hline 35.1 \end{array} \quad \begin{array}{r} 48.3 \\ 27.1 \\ \hline 21.2 \end{array} \quad \begin{array}{r} 48.3 \\ 36.8 \\ \hline 11.5 \end{array} \quad \begin{array}{r} 48.3 \\ 45.7 \\ \hline 2.6 \end{array}$$

$$\begin{array}{r} 57.8 \\ 48.3 \\ \hline 9.5 \end{array} \quad \begin{array}{r} 61.7 \\ 48.3 \\ \hline 13.4 \end{array} \quad \begin{array}{r} 45.7 \\ 13.2 \\ \hline 32.5 \end{array} \quad \begin{array}{r} 45.7 \\ 27.1 \\ \hline 18.6 \end{array} \quad \begin{array}{r} 45.7 \\ 36.8 \\ \hline 8.9 \end{array} \quad 45.7$$

$$\begin{array}{r} 48.3 \\ 45.7 \\ \hline 2.6 \end{array} \quad \begin{array}{r} 57.8 \\ 45.7 \\ \hline 12.1 \end{array} \quad \begin{array}{r} 61.7 \\ 45.7 \\ \hline 16.0 \end{array} \quad \begin{array}{r} 36.8 \\ 13.2 \\ \hline 23.6 \end{array} \quad \begin{array}{r} 36.8 \\ 27.1 \\ \hline 9.7 \end{array} \quad \begin{array}{r} 36.8 \\ 8.9 \\ \hline 57.8 \end{array}$$

$$\begin{array}{r} 48.3 \\ 36.8 \\ \hline 11.5 \end{array} \quad \begin{array}{r} 57.8 \\ 36.8 \\ \hline 21.0 \end{array} \quad \begin{array}{r} 61.7 \\ 36.8 \\ \hline 24.9 \end{array} \quad \begin{array}{r} 27.1 \\ 13.2 \\ \hline 13.9 \end{array} \quad \begin{array}{r} 36.8 \\ 27.1 \\ \hline 9.7 \end{array} \quad \begin{array}{r} 45.7 \\ 27.1 \\ \hline 18.6 \end{array} \quad \begin{array}{r} 48.3 \\ 27.1 \\ \hline 21.2 \end{array} \quad 30.7$$

150	177	100	140
200	200	200	200
300	300	300	300
400	400	400	400
500			500

100	100	700
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300	100	300
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200	200	200	200
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Rebeco La Japoy  
Jose Nora  
Paul Trujillo  
Antonio Peña  
Saturno Cabrera

Carlos Ruiz  
Gil Plazas  
Theodoro Torres  
Luis Alfredo Ruiz  
Daniel Ortiz  
Abram Ordoñez  
Gustavo Albarazán  
Jorge Pardo  
Atanacio Durango  
Luis Baez  
Eugenio Manrique  
Casimiro Cortez  
Efraim Martinez  
Severo Mendoza  
Maximino Mendoza

T V S L M H J

R. 4. 1

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71	72	73	74	75	76	77	78	79	80
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621	622	623	624	625	626	627	628	629	630
631	632	633	634	635	636	637	638	639	640
641	642	643	644	645	646	647	648	649	650
651	652	653	654	655	656	657	658	659	660
661	662	663	664	665	666	667	668	669	670
671	672	673	674	675	676	677	678	679	680
681	682	683	684	685	686	687	688	689	690
691	692	693	694	695	696	697	698	699	700
701	702	703	704	705	706	707	708	709	710
711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730
731	732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749	750
751	752	753	754	755	756	757	758	759	760
761	762	763	764	765	766	767	768	769	770
771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790
791	792	793	794	795	796	797	798	799	800
801	802	803	804	805	806	807	808	809	810
811	812	813	814	815	816	817	818	819	820
821	822	823	824	825	826	827	828	829	830
831	832	833	834	835	836	837	838	839	840
841	842	843	844	845	846	847	848	849	850
851	852	853	854	855	856	857	858	859	860
861	862	863	864	865	866	867	868	869	870
871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890
891	892	893	894	895	896	897	898	899	900
901	902	903	904	905	906	907	908	909	910
911	912	913	914	915	916	917	918	919	920
921	922	923	924	925	926	927	928	929	930
931	932	933	934	935	936	937	938	939	940
941	942	943	944	945	946	947	948	949	950
951	952	953	954	955	956	957	958	959	960
961	962	963	964	965	966	967	968	969	970
971	972	973	974	975	976	977	978	979	980
981	982	983	984	985	986	987	988	989	990
991	992	993	994	995	996	997	998	999	1000

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 95. 27. 13  
 96. 28. 13  
 97. 29. 13  
 98. 30. 13  
 99. 1. 14  
 100. 2. 14

28. 4 North  
 8:00 — 1:30 by

and Sept 5 Train in — 8:30 — 3:00  
 Sept 6 Train in — 8:30 — 3:00  
 Sept 7 Train in — 8:30 — 3:00  
 Sept 8 Train in — 8:30 — 3:00

6:00  
 6:00  
 6:00

Sept 10  
 Sept 11  
 Sept 12

Made part  
 Topographical work for airport

Nov. Sept. 13



~~10~~  
 2000  
 58  
 700  
 102  
 12

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